



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

## NOTICE OF ACCEPTANCE (NOA)

**TKO Doors, Inc.**

**N56 W24701 N. Corporate Circle**

**Sussex, WI 53089**

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model CW WL Plastic Sectional Garage Door up to 10'-0" wide**

**APPROVAL DOCUMENT:** Drawing No. **11-TKO-0001**, titled "Fiberglass Dock Doors CW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 04/14/11, with last revision dated 08/23/11, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*APPROVED*  
09/06/11

NOA No 11-0513.04  
Expiration Date: September 15, 2016  
Approval Date: September 15, 2011  
Page 1

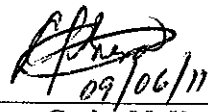
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **11-TKO-0001**, titled "Fiberglass Dock Doors CW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 04/14/11, with last revision dated 08/23/11, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

**B. TESTS**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
Along with marked-up drawings and installation diagram of Series/Model CW WL, dock door, prepared by Architectural Testing, Inc., Test Report No. **98517.01-602-18**, dated 03/24/10, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
Along with marked-up drawings and installation diagram of Series/Model CW WL, dock door, prepared by Architectural Testing, Inc., Test Report No. **89514.01-602-18**, dated 04/24/09, signed and sealed by Joseph A. Reed, P.E.
3. Test report on Accelerated Weathering using Xenon Arc Light Apparatus for 4500 hours, per ASTM G155-04 and on Tensile Test per ASTM D638 of FRP composite panels, prepared by Architectural Testing, Inc., Test Report No. **A3696.01-106-18**, dated 05/04/11, signed and sealed by Joseph A. Reed, P.E.
4. Test report on Self-ignition Temperature per ASTM D1929-96(2000)e1 of various plastic and fiberglass door components, prepared by Architectural Testing, Inc., Test Report No. **95487.01-106-31**, dated 11/04/09, signed and sealed by Joseph A. Reed, P.E.
5. Test report on Smoke Density Rating per ASTM D2843-99(2004) of different types of plastics, prepared by Architectural Testing, Inc., Test Report No. **92103.01-106-18**, dated 05/04/11, signed and sealed by Joseph A. Reed, P.E.
6. Test report on Smoke Density Rating per ASTM D2843-99(2004) of vinyl and seals, prepared by Architectural Testing, Inc., Test Report No. **95487.02-106-31**, dated 11/04/09, signed and sealed by Joseph A. Reed, P.E.



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 11-0513.04

Expiration Date: September 15, 2016  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS (CONTINUED)**

7. Test report on Rate of Burn per ASTM D635-06 of different types of plastics, prepared by Architectural Testing, Inc., Test Report No. **92103.02-106-18**, dated 08/19/09, signed and sealed by Joseph A. Reed, P.E.
8. Test report on Rate of Burn per ASTM D635-06 of vinyl and seals, prepared by Architectural Testing, Inc., Test Report No. **95487.03-106-31**, dated 11/04/09, signed and sealed by Joseph A. Reed, P.E.

**C. CALCULATIONS**

1. Jamb anchor calculations, complying with FBC-2007, prepared by Engineering Express, dated 04/15/11, signed and sealed by Frank L. Bennardo, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

**E. MATERIAL CERTIFICATIONS**

1. Test report on Self-Ignition Temperature per ASTM D1929-96(2000), Flame Spread Index and Smoke Developed Index per ASTM D84-10b of RayLite EPS foam insulation, prepared by Architectural Testing, Inc., Test Report No. **B1755.01-122-18**, dated 08/17/11, signed and sealed by Michael D. Stremmel, P.E.

**F. STATEMENTS**

1. Statement letter of code conformance with 2007 FBC, issued by Engineering Express, dated 04/18/11, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 04/18/11, signed and sealed by Frank L. Bennardo, P.E.



09/06/11

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 11-0513.04

Expiration Date: September 15, 2016  
Approval Date: September 15, 2011

08/23/2011 - 4:02pm keith F:\01 Project Files\TKO Dock Doors (TKO)\2011\11-TKO-0001 Fiberglass Dock Doors NOA\11-TKO-0001\_02b Fiberglass Dock Doors NOA.dwg

# CW WL DOCK DOORS

## LARGE MISSILE IMPACT RESISTANT

FRANK L. BENNARD, P.E.  
# PE0046549

08/23/2011

**ENGINEERING**  
**EXPRESS**

160 SW 12th AVENUE, #106  
DEERFIELD BEACH, FL 33442  
Ph: (954) 354-0660 Fax: (954) 354-0443  
WWW.ENGP.COM

CERT. OF AUTH. #9885  
A FRANK L. BENNARD, P.E., INC. INNOVATION

**TKO DOCK DOORS**  
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A  
SUSSEX, WI 53089  
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS  
CW WL OVERHEAD GARAGE DOOR  
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INT ISSUE	KL	FLB	04/14/11
REV. PER BNC COMMENTS	KL	FLB	08/23/11

11-TKO-0001  
SCALE: 1/2  
PAGE DESCRIPTION:

1 7

### GENERAL NOTES

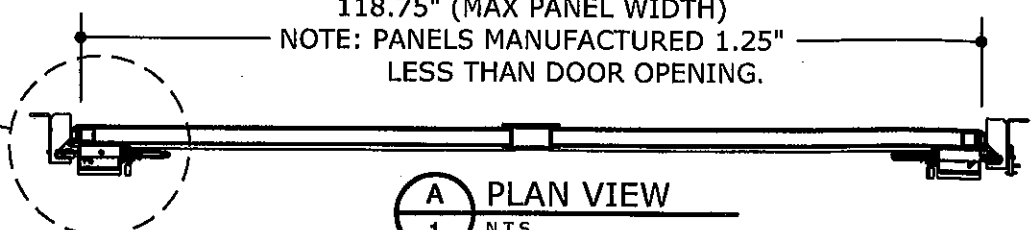
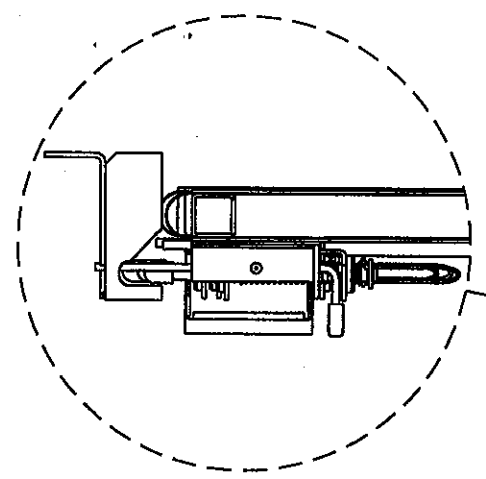
1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
5. CONTRACTOR SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI U.O.N.
7. ALL DISSIMILAR MATERIALS IN CONTACT SHALL BE PAINTED, PLATED OR OTHERWISE INSULATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.
8. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 120", PROVIDED THAT INDIVIDUAL PANEL HEIGHTS DO NOT EXCEED 24", AND A TOP PANEL IS USED AS SHOWN IN DETAIL 1/6.
9. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.

**ALLOWABLE  
DESIGN PRESSURES**  
**+52.0 PSF**  
**-67.5 PSF**

Approved as complying with the  
Florida Building Code  
Date 09/15/2011  
NOA# 11-0513.02  
Miami Dade Product Control  
By *[Signature]*

118.75" (MAX PANEL WIDTH)  
NOTE: PANELS MANUFACTURED 1.25"  
LESS THAN DOOR OPENING.

**A**  
**1**  
PLAN VIEW  
N.T.S.



SEE SHEET 6 OF 7 FOR DETAIL  
PANEL HARDWARE

SEE SHEET 5 OF 7 FOR DETAIL  
TRACK ANCHOR MOUNTING

SEE SHEET 4 OF 7 FOR DETAIL  
LOWER TRACK ASSEMBLY

SEE SHEET 2 OF 7 FOR DETAIL  
PANEL ASSEMBLY

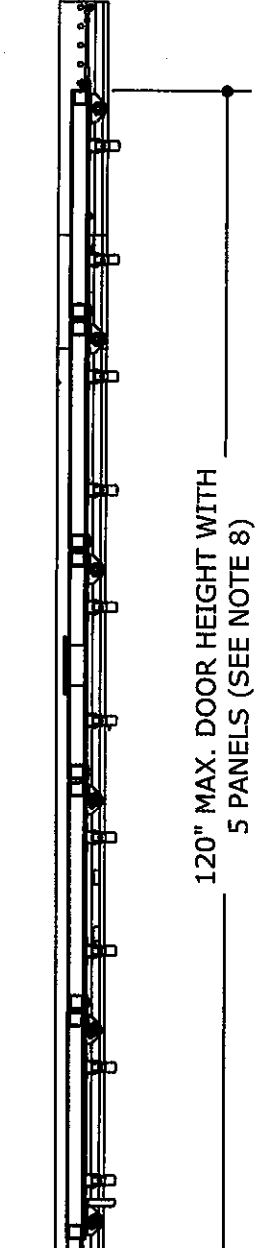
SEE SHEET 2 OF 7, FOR PANEL  
ASSEMBLY

SEE SHEET 3 OF 7 FOR DETAIL  
PANEL COMPONENTS

**A**  
**1**

24" MAX.  
PANEL  
HEIGHT  
24" MAX.  
PANEL  
HEIGHT  
24" MAX.  
PANEL  
HEIGHT  
24" MAX.  
PANEL  
HEIGHT  
24" MAX.  
PANEL  
HEIGHT  
24" MAX.  
PANEL  
HEIGHT

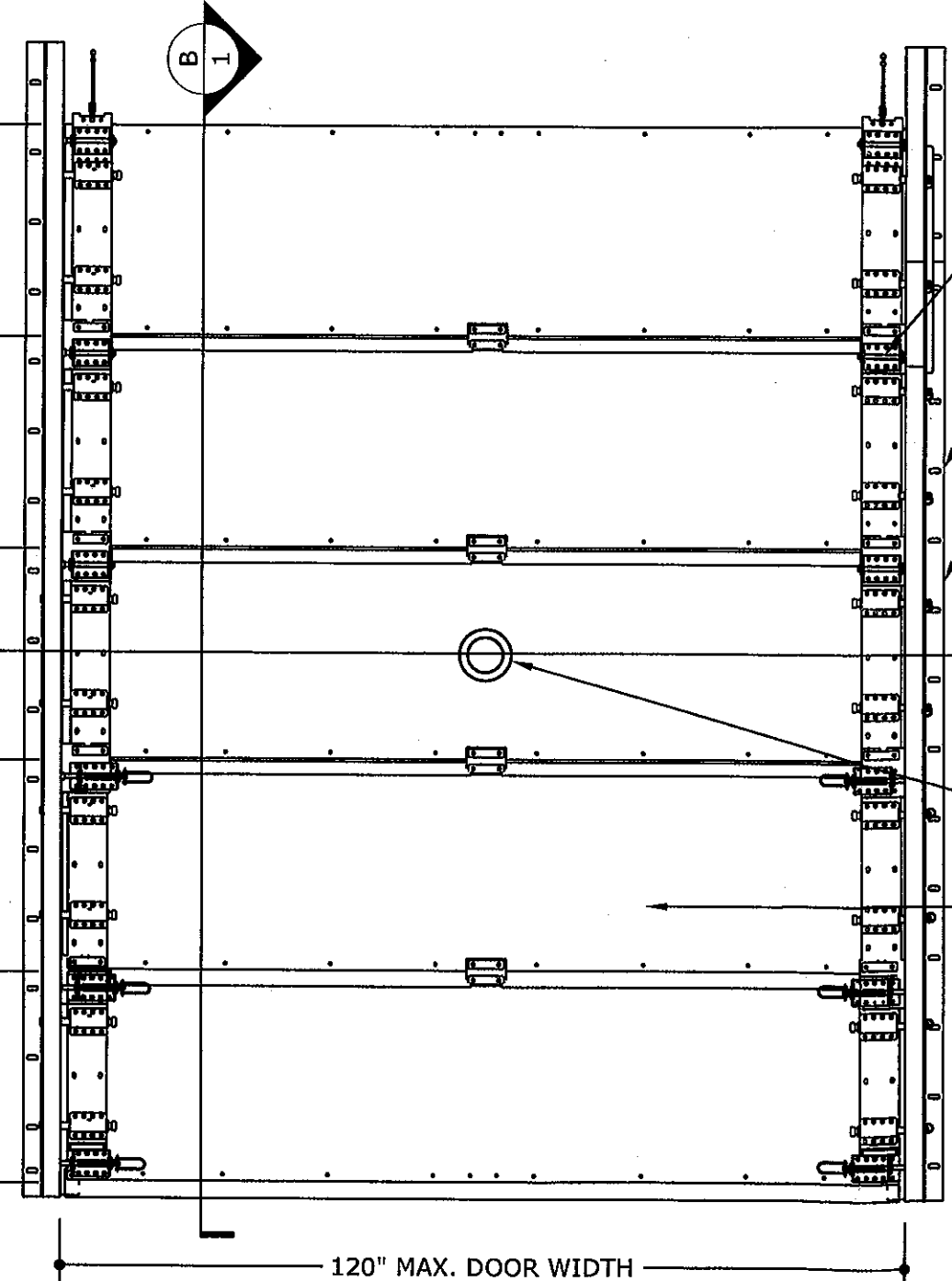
120" MAX. DOOR HEIGHT WITH  
5 PANELS (SEE NOTE 8)



**B**  
**1**  
SECTION VIEW  
N.T.S.

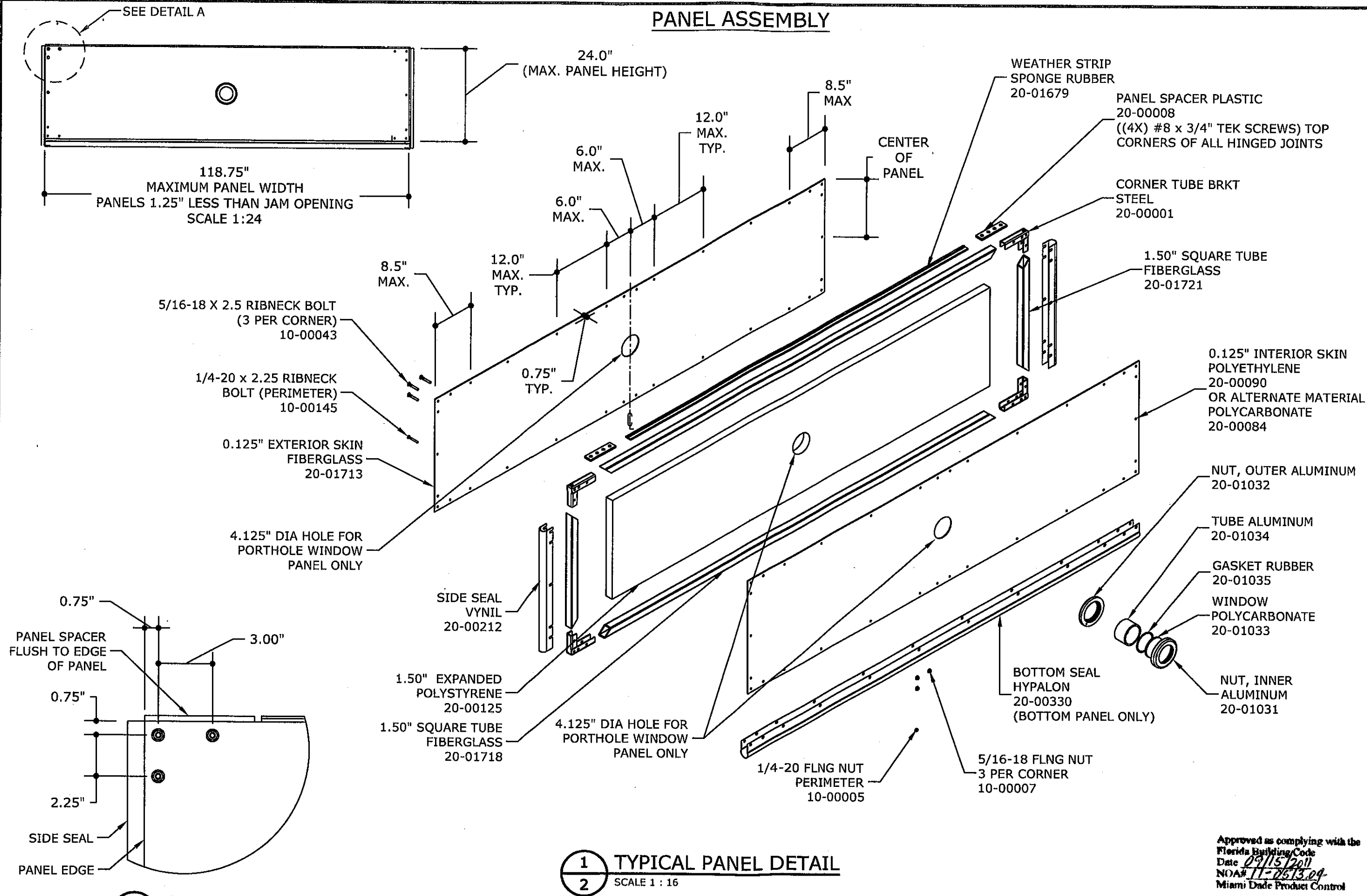
120" MAX. DOOR WIDTH

**1**  
**1**  
INTERIOR ELEVATION  
N.T.S.



REMARKS	DRWN	CHKD	DATE
	INIT ISSUE	KL	FLB
REV. PER BNC COMMENTS	KL	FLB	08/23/11

—SEE DETAIL A



1 TYPICAL PANEL DETAIL  
2 SCALE 1 : 16

Approved as complying with the  
Florida Building Code  
Date 02/15/2011  
NOA# 11-0513.09  
Miami Dade Product Control

By \_\_\_\_\_

**A CORNER DETAIL**  
**2** SCALE 1 : 5

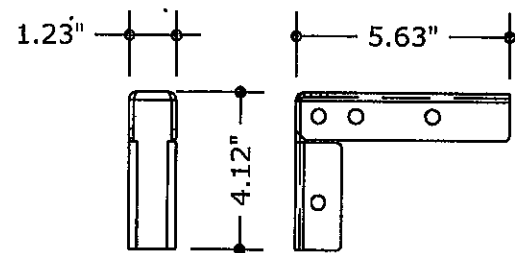
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**Keith**

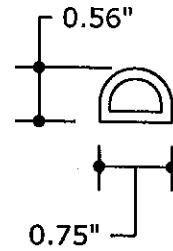
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08/23/2011 - 4:02pm keith F:\01 Project Files\TKO Dock Doors (TKO)\2011\11-TKO-0001 Fiberglass Dock Doors NOA.dwg

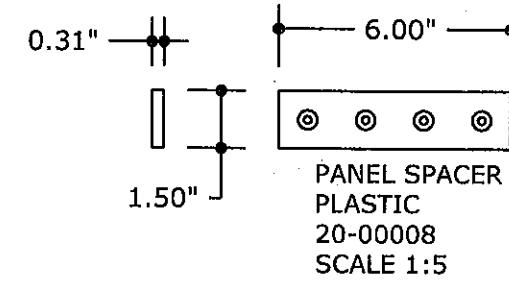
## PANEL COMPONENTS



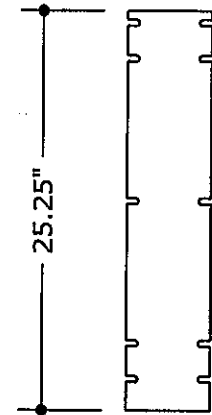
CORNER TUBE BRKT  
0.119" THICK ASTM A1011 STEEL  
SAE GR 945A: Fy = 45ksi MINIMUM  
20-00001  
SCALE 1:5



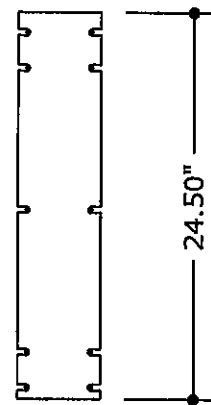
WEATHER STRIP  
SPONGE RUBBER  
PART # 20-01679



PANEL SPACER  
PLASTIC  
20-00008  
SCALE 1:5



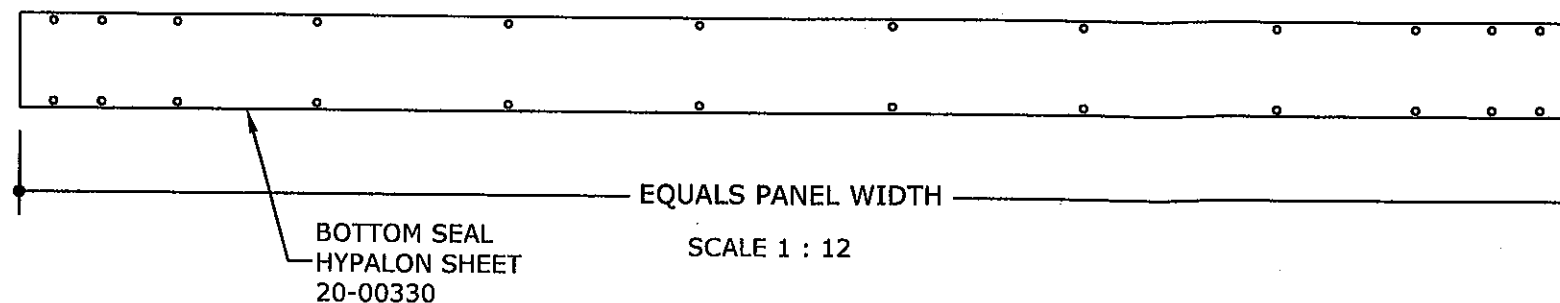
SIDE SEAL  
22 OZ. URETHANE  
SHEET  
20-00212  
SCALE 1:12  
BOTTOM PANEL ONLY



SIDE SEAL  
22 OZ. URETHANE  
SHEET  
20-00132  
SCALE 1:12  
NON-BOTTOM PANELS

0.125" EXTERIOR SKIN  
FIBERGLASS  
20-01713  
0.125" INTERIOR SKIN  
POLYETHYLENE  
20-00090  
OR ALTERNATE MATERIAL  
POLYCARBONATE  
20-00084

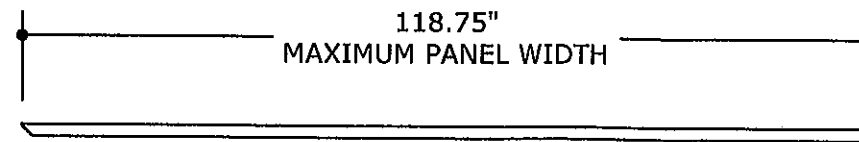
1.50" INSULATION  
EXPANDED POLYSTYRENE  
20-00125



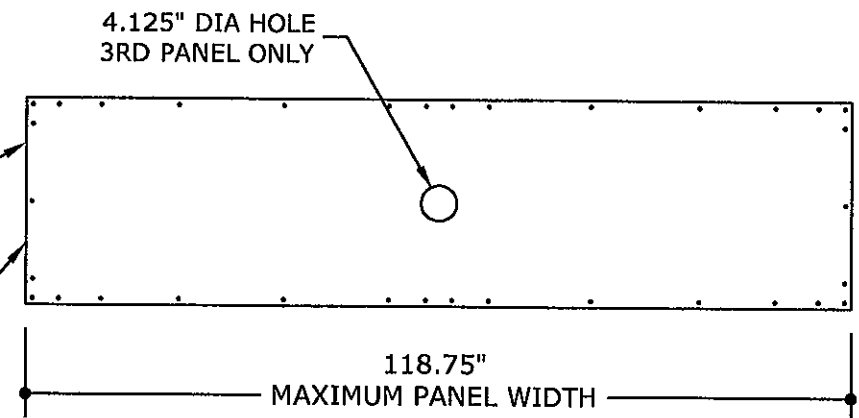
BOTTOM SEAL  
HYPALON SHEET  
20-00330

EQUALS PANEL WIDTH

SCALE 1 : 12



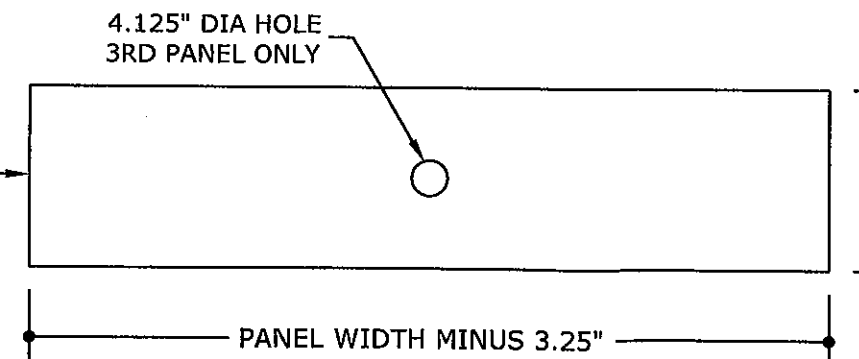
118.75"  
MAXIMUM PANEL WIDTH



4.125" DIA HOLE  
3RD PANEL ONLY

118.75"  
MAXIMUM PANEL WIDTH

SCALE 1 : 22



4.125" DIA HOLE  
3RD PANEL ONLY

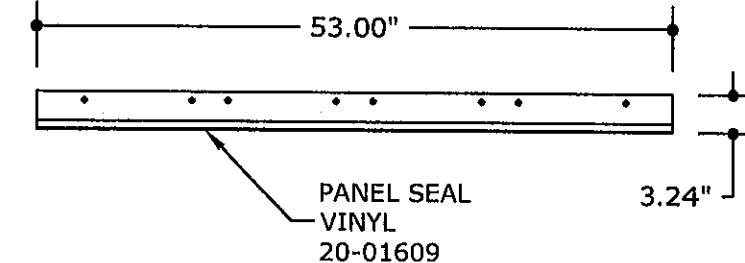
PANEL WIDTH MINUS 3.25"

SCALE 1 : 22

1.50" SQUARE TUBE  
FIBERGLASS  
20-01718  
SCALE 1:22

24.0" MAX.  
PANEL HEIGHT

PANEL HEIGHT  
MINUS 3.0"



PANEL SEAL  
VINYL  
20-01609

1.50" SQUARE TUBE  
FIBERGLASS  
SCALE 1:5

1.50" SQUARE TUBE  
FIBERGLASS  
20-001721  
SCALE 1:12

Approved as complying with the  
Florida Building Code  
Date: 08/15/2011  
NOA: 11-0513.04  
Miami Dade Product Control  
By: [Signature]

FRANK L. BENNARDO, P.E.  
# PE0046549

08/23/2011

ENGINEERING  
EXPRESS

160 SW 12th AVENUE, #106  
DEERFIELD BEACH, FL 33442  
PH: (954) 354-0660 FAX: (954) 354-0443  
WWW.ENGINEERINGEXPRESS.COM  
CERT OF AUTH #9885  
A FRANK L. BENNARDO, P.E., INC. INNOVATION

TKO DOCK DOORS

N56 W24701 NORTH CORPORATE CIRCLE, SUITE A  
SUSSEX, VT 53089  
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS  
CW WL OVERHEAD GARAGE DOOR  
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DATE	DATE	DATE	DATE	DATE
INIT ISSUE	KL	FLB	FLB	FLB	FLB
REV. PER INC COMMENTS	KL	FLB	FLB	FLB	FLB

11-TKO-0001

SCALE: 102

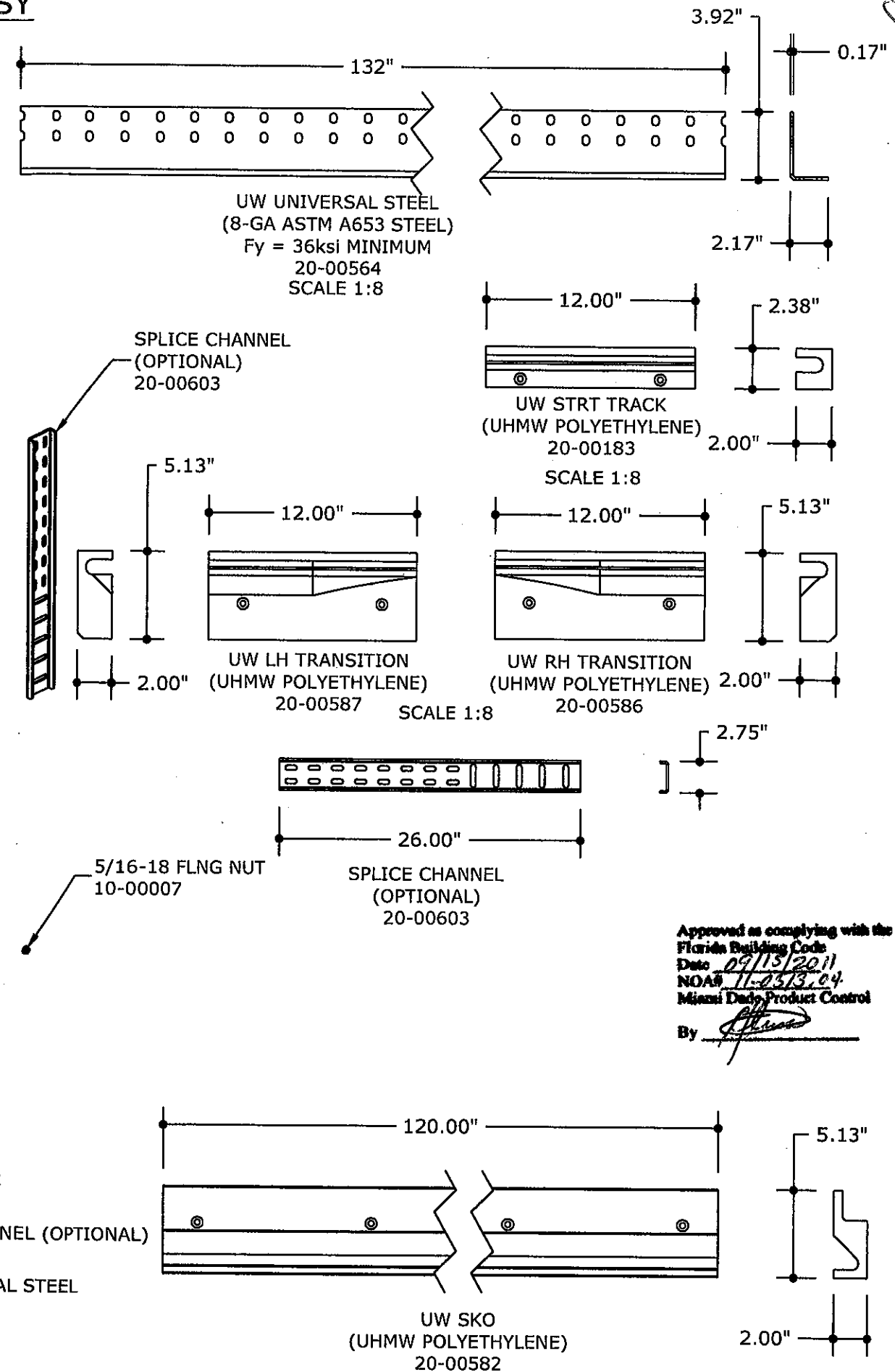
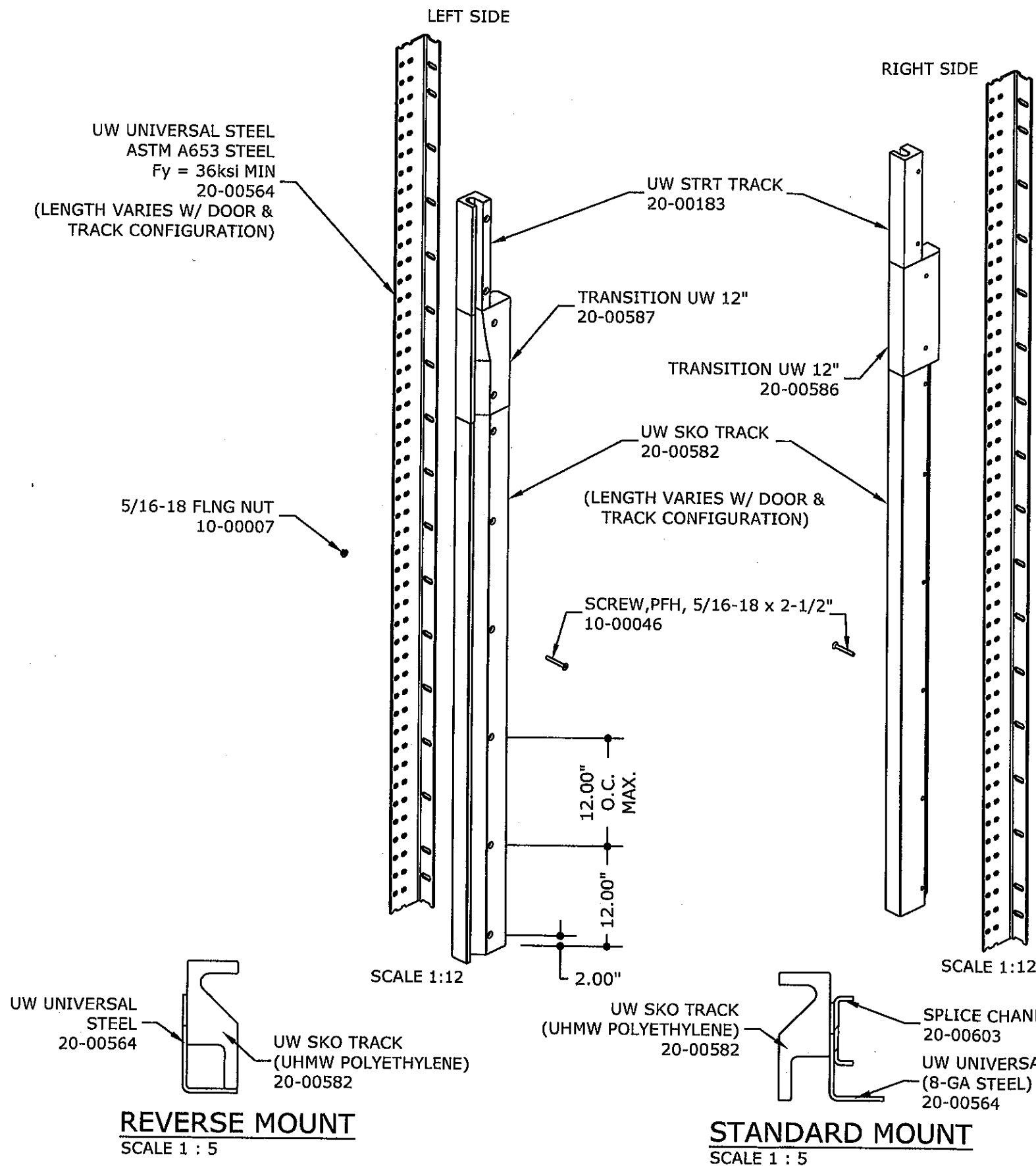
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3

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## LOWER TRACK ASSY



Approved as complying with the  
Florida Building Code  
Date 09/13/2011  
NOA 11-0313.04  
Miami Dade Product Control  
By *[Signature]*

FRANK L. BENNARD, P.E.  
#PE0046549

08/23/2011

**ENGINEERING  
EXPRESS**  
160 SW 12th AVENUE, #106  
DEERFIELD BEACH, FL 33442  
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CERT OF AUTH #8885  
A FRANK L. BENNARD, P.E., INC. INNOVATION

**TKO DOCK DOORS**  
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A  
SUSSEX, WI 53089  
PHONE: 1-800-575-3366 FAX: (262) 246-1301  
FIBERGLASS DOCK DOORS  
CW WL OVERHEAD GARAGE DOOR  
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DATE	DRW/CHKD
UNIT ISSUE	KL	FLB
REV. PER BNC COMMENTS	KL	FLB

11-TKO-0001

SCALE: 102  
PAGE DESCRIPTION:





# FASTENER NOTE:

1- FIXED PLUNGERS, HANDLES, AND TPU CABLE BRKTS, ARE MOUNTED TO THE PANELS USING: (3) 5/16-18 X 2-1/2" RIBNECK BOLTS AND (3) 5/16-18 FLANGE NUTS.

2- SPRING PLUNGERS, AND ADAPTER PLATES ARE MOUNTED TO THE PANELS USING: (4) 5/16-18 X 2-1/2" RIBNECK BOLTS, (4) 5/16-18 FLANGE NUTS, AND (2) #10 - 3/4" TEK SCREWS.

3- FABRIC HINGE, AND HINGE STRAP ARE MOUNTED TO THE PANELS USING: (2) 5/16-18 X 2-1/2" RIBNECK BOLTS AND (2) 5/16-18 FLANGE NUTS.

4- PANEL PLATES ARE MOUNTED TO THE PANELS USING: (6) 5/16-18 X 2-1/2" RIBNECK BOLTS, (6) 5/16-18 FLANGE NUTS, (1) 1/4-20 X 2-1/4" RIBNECK BOLT AND (1) 1/4-20 FLANGE NUT.

5- SLIDE LOCKS ARE MOUNTED TO THE PANELS USING: (4) #14 X 3/4" TEK SCREWS.

6- TORQUE REQUIREMENT FOR FASTENERS NOT IN CORNERS RIBNECK 1/4-20 BOLTS MUST BE TORQUED TO 30 +/-5 IN-LB, 5/16-18 BOLTS MUST BE TORQUED TO 45 +/-5 IN-LB.

TPU CABLE BRKT  
20-00875  
"TOP PICK UP  
TRACKS ONLY"

TOP PANEL

INTERMEDIATE  
PANEL (4TH)

WINDOW  
PANEL (3RD)

KNOCK OUT LOCK  
30-00590

INTERMEDIATE  
PANEL (2ND)

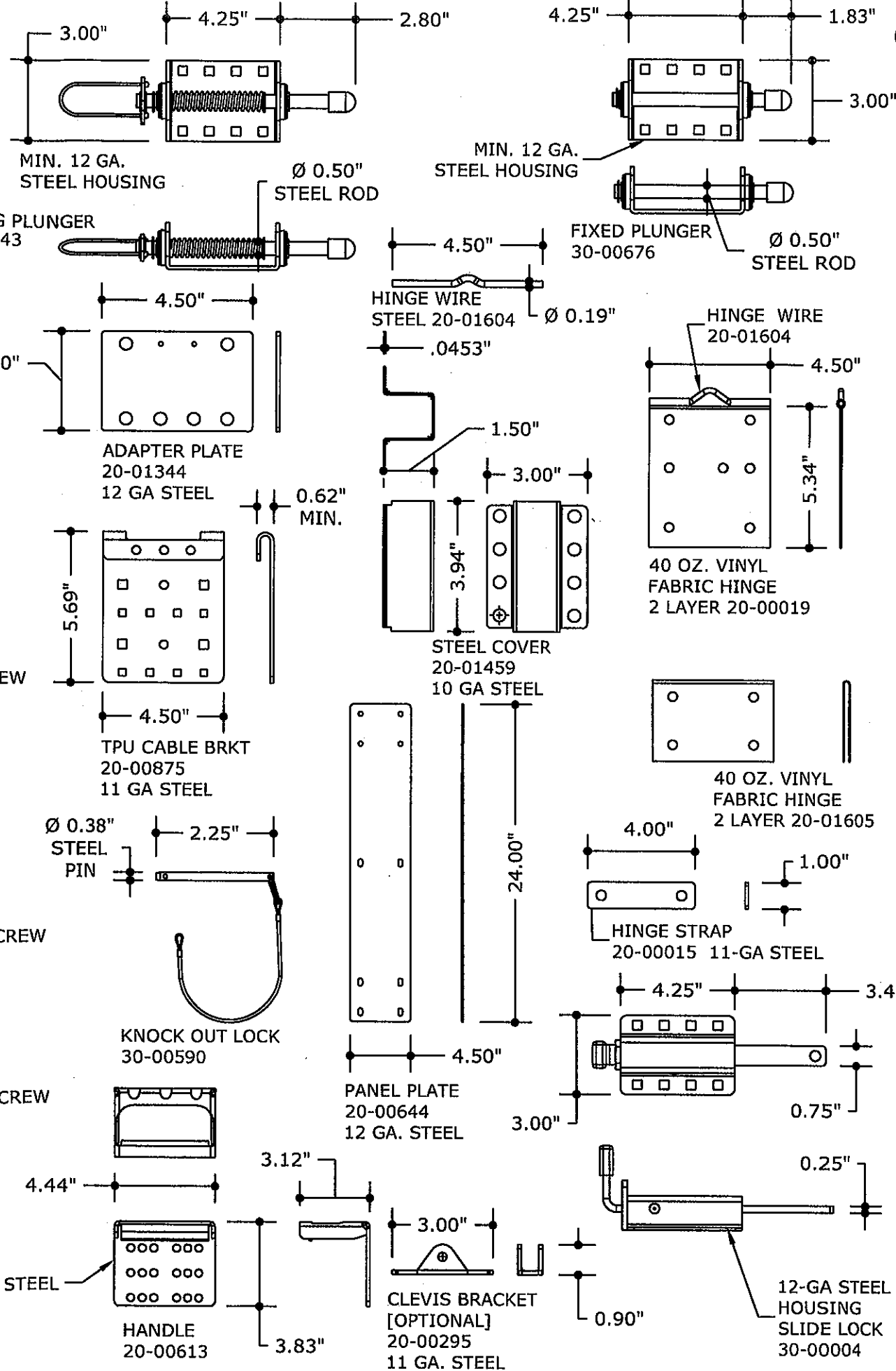
BOTTOM  
PANEL

INSIDE FACE OF PANEL

1  
6 INTERIOR ELEVATION  
SCALE 1 : 16

## PANEL HARDWARE

Approved as complying with the  
Florida Building Code  
Date 09/15/2011  
NOA# 11-0513.04  
Miami Dade Product Control  
By [Signature]



FRANK L. BENNARDI, P.E.  
#PE0046549

08/23/2011

**ENGINEERING EXPRESS**

160 SW 12th AVENUE, #106  
DEERFIELD BEACH, FL 33442  
Ph: (954) 354-0660 Fax: (954) 354-0443  
WWW.ENGP.COM

CERT. OF AUTH. #9886  
A FRANK L. BENNARDI, P.E., INC. INNOVATION

**TKO DOCK DOORS**

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SUSSEX, WI 53089  
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS  
CW WL OVERHEAD GARAGE DOOR  
MIAMI-DADE NOTICE OF ACCEPTANCE

REVISION	DATE	BY	CHKD	DATE
1	04/14/11	KL	KL	08/23/11
2				
3				
4				
5				
6				
7				
8				
9				
10				

11-TKO-0001  
SCALE: 1/2"  
PAGE DESCRIPTION:  
6

18/02/2014 - 4:12pm  
[email] F:\01 Project Files\TKO Dock Doors\TKO\2011\11-TKO-0001 Fiberglass Dock Doors NOA.dwg

†MANUFACTURED BY BEDFORD REINFORCED PLASTICS, INC.  
\*ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE

By [Signature]

7